

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-012001	Application No. 10/724,005
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Alexei A. Erchak	
		Filing Date November 26, 2003	Group Art Unit 2811

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
ON	AA	6,469,324	10/22/02	Wang, Tien Yang			
	AB	6,287,882	09/11/01	Chang et al.			
	AC	5,793,062	08/11/98	Kish et al.			
	AD	6,504,180	1/7/03	Heremans, et al.			
	AE	6,690,268	2/10/04	Schofield, et al.			
	AF	6,642,618	11/4/03	Yagi, et al.			
	AG	6,784,027	8/31/04	Streubel, et al.			
	AH	6,847,057	1/25/05	Gardner, et al.			
	AI	6,072,628	6/6/00	Sarayedine			
	AJ	6,122,103	9/19/00	Perkins, et al.			
	AK	6,288,840	9/11/01	Perkins, et al.			
	AL	6,574,383	6/3/03	Erchak, et al.			
	AM	6,504,180	1/7/03	Heremans, et al.			
	AN	6,690,268	2/10/04	Schofield, et al.			
	AO	5,162,878	11/10/92	Sasagawa, et al.			
	AP	6,831,302	12/14/04	Erchack et al.			
	AQ	6,303,405	10/16/01	Yoshida, et al.			
	AR	2002/0110172	8/15/02	Hasnain, Ghulam, et al.			
	AS	6,222,207	4/24/01	Carter-Coman, et al.			
	AT	6,593,160	7/15/03	Carter-Coman, et al.			
	AU	6,573,537	6/3/03	Steigerwald, et al.			
	AV	6,465,808	10/15/02	Lin			
	AW	2003-0143772	7/31/03	Chen, Tzer-Perng			
	AX	6,762,069	7/13/04	Huang, et al.			
	AY	6,649,437	11/18/03	Yang, et al.			
	AZ	6,740,906	5/25/04	Slater, Jr., et al.			
ON	AAA	6,791,119	9/14/04	Slater, Jr., et al.			

Examiner Signature ON	Date Considered 6/13/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

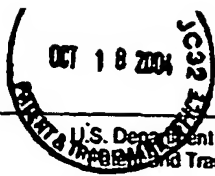
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(37 CFR §1.98(b))			

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
ON	ABB	6,794,684	9/21/04	Slater, Jr., et al.			
	ACC	6,825,502	11/30/04	Okazaki, et al.			
	ADD	2004-0182914	9/23/04	Venugopalan, Hari S.			
	AEE	2005-0019971	1/27/05	Slater, David B. Jr.			
	AFF	6,828,597	12/07/04	Wegleiter, et al.			
	AGG	5,814,839	9/29/98	Hosoba			
	AHH	5,491,350	2/13/96	Unno, et al.			
	AII	5,834,331	11/10/98	Razeghi			
	AJJ	6,426,515	7/30/02	Ishikawa			
ON	AKK	2003/0222263	12/04/03	Choi			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
ON	ALL	02/071450 A2		WO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
ON	AMM	Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs," J. Vac. Sci. Technol. B 11 (6), Nov/Dec 1993, pages 2637-2640
ON	ANN	Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors," Appl. Phys. Lett. 64 (6), 7 February 1994, pages 687-689
	AOO	
	APP	

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(37 CFR §1.88(b))

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<u>ON</u>	AA	5,359,345	10/25/94	Hunter et al.			
	AB	5,631,190	05/20/97	Negley et al.			
	AC	5,724,062	03/03/98	Hunter et al.			
	AD	5,799,924	07/14/98	Krames et al.			
	AE	5,955,749	09/21/99	Joannopoulos et al.			
	AF	6,071,795	06/06/00	Cheung et al.			
	AG	6,420,242	07/16/02	Cheung et al.			
	AH	6,559,075	05/06/03	Kelly et al.			
	AI	6,410,942	06/25/02	Thibeault et al.			
	AJ	6,657,236	12/02/03	Thibeault et al.			
	AK	2003/0141507	07/31/03	Krames et al.			
	AL	5,633,527	05/27/1997	Lear			02/06/95
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	AN	5,073,041	12/17/1991	Rastani			11/13/90
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	AP	6,091,085	07/18/00	Lester			02/19/98
	AQ	6,469,324	10/22/02	Wang, Tien Yang			
	AR	6,287,882	09/11/01	Chang et al.			
<u>ON</u>	AS	5,793,062	08/11/98	Kish et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<u>ON</u>	AT	WO 98/14986	04/09/98	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<u>ON</u>	AU	W.S. Wong et al. "Damage-free separation of GaN thin films from sapphire substrates", Appl. Phys. Lett. 72 (5), February 2, 1998, pages 599-601

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ON	AV	M.K. Kelly et al. "Optical process for liftoff of Group III-nitride films", Physica Status Solidi; Rapid Research Note, November 28, 1996, 2 pages.
	AW	A. A. Erchak et al. "Enhanced coupling to vertical radiation using a two-dimensional photonic crystal in a semiconductor light-emitting diode", Appl. Phys. Lett. (78 (5), January 29, 2001, pages 563-565
	AX	P.L. Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors", Appl. Phys. Lett. 64(6), February 7, 1994, pages 687-689
	AY	P.L. Gourley et al. "Optical Bloch waves in a semiconductor photonic lattice", Appl. Phys. Lett. 60 (22), June 1, 1992, pages 2714-2716
	AZ	J.R. Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs", J. Vac. Sci. Technol. B 11(6), November/December 1993, pages 2637-2640
	AAA	M. Krames et al. "Introduction to the Issue on High-Efficiency Light-Emitting Diodes", IEEE Journal on selected topic in quantum electronics, Vol. 8, No. 2 March/April 2002, pages 185-188
	ABB	K. Streubel et al. "High Brightness AlGaInP Light-Emitting Diodes", IEEE Journal on selected topic in quantum electronics, Vol. 8, No. 2, March/April 2002, pages 321-332
	ACC	M. Okai et al. "Novel method to fabricate corrugation for a $\lambda/4$ -shifted distributed feedback laser using a grating photomask", Appl. Phys. Lett. 55(5), July 31, 1989, pages 415-417
	ADD	T.L. Koch et al. "1.55- μ InGaAsP distributed feedback vapor phase transported buried heterostructure lasers", Appl. Phys. Lett. 47 (1), July 1, 1985, pages 12-14
	AEE	W.T. Tsang et al. "Semiconductor distributed feedback lasers with quantum well or superlattice grating for index or gain-coupled optical feedback", Appl. Phys. Lett. 60 (21), May 25 1992, pages 258-2582
	AFF	M. Zelsmann et al. "Seventy-fold enhancement of light extraction from a defectless photonic crystal made on silicon-on-insulator", Appl. Phys. Lett. 83 (13), September 29, 2003, pages 2542-2544
	AGG	M. Rattier et al. "Omnidirectional and compact guided light extraction from Archimedean photonic lattices", Appl. Phys. Lett. 83 (7), August 18, 2003, pages 1283-1285
	AHH	Y.-J. Lee et al. "A high-extraction-efficiency nanopatterned organic light-emitting diode", Appl. Phys. Lett. 82(21), May 26, 2003, pages 3779-3781
	AII	I. Schnitzer et al. "30% external quantum efficiency from surface textured, thin-film light-emitting diodes", Appl. Phys. Lett. 63 (18), October 18, 1993, pages 2174-2176
	AJJ	M. Boroditsky et al. "Light extraction from optically pumped light-emitting diode by thin-slab photonic crystals", Appl. Phys. Lett. 75 (8), August 23, 1999, pages 1036-1038
	AKK	L. Chen et al. "Fabrication of 50-100 nm Patterned InGaN Blue Light Emitting Heterostructures", Phys. Stat. Sol. (a), 188 (1), 2001, pages 135-138.
	ALL	I. Bulu et al. "Highly directive radiation from sources embedded inside photonic crystals", Appl. Phys. Lett. 83 (16), October 20, 2003, pages 3263-3265
	AMM	T. N. Oder et al. "III-nitride photonic crystals", Appl. Phys. Lett. 83 (6), August 11, 2003, pages 1231-1233
ON	ANN	M.K. Kelly et al. "Optical patterning of GaN films", Appl. Phys. Lett 68 (12), September 16, 1996, pages 1749-1751

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